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United States Patent [19]

Haataja et al.

[11] **Patent Number:** 5,923,753[45] **Date of Patent:** Jul. 13, 1999[54] **OPTIC CABLE EXIT TROUGH WITH BYPASS**[75] **Inventors:** Timothy Jon Haataja, Prior Lake;
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Gary F. Nault, Bloomington, all of Minn.[73] **Assignee:** ADC Telecommunications, Inc.,
Minnetonka, Minn.[21] **Appl. No.:** 08/971,419[22] **Filed:** Nov. 17, 1997[51] **Int. Cl.⁶** H04M 1/00[52] **U.S. Cl.** 379/438; 379/437[58] **Field of Search** 379/437, 451,
379/438; 248/68.1, 58, 49; 174/60, 64[56] **References Cited****U.S. PATENT DOCUMENTS**3,033,913 5/1962 Dietze 174/60
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paths," Issue 2,11 pages, dated 1995.Warren & Brown & Staff Pty Ltd brochure pages entitled
"Optical Fibre Ductwork," 2 pages, undated.ADC Telecommunications brochure entitled "Fiber Guide™
Fiber Management System," 6 pages, dated Jun. 1989.*Primary Examiner*—Jack Chiang*Attorney, Agent, or Firm*—Merchant, Gould, Smith, Edell,
Welter & Schmidt[57] **ABSTRACT**

A cable trough is provided including a bottom portion and two upstanding sides extending from the bottom portion to define a cable pathway. The upstanding sides define an enlarged central portion of the cable trough, and the bottom portion including at least one exit trough portion. The exit trough portion can be centrally located, with a bypass pathway on either side. At least one separator wall is provided to separate the exit trough portion from each bypass pathway. A component flange is also provided extending from one of the upstanding sides. The cable trough can also include a cable storage pathway. Alternatively, two exit trough portions can be positioned on opposite sides of the cable trough adjacent each upstanding side, and on opposite sides of a central bypass pathway.

4 Claims, 9 Drawing Sheets